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PCT/KR2005/000066

REC'D 1 0 MAY 2005

09 JANUARY 2004 (09.01.2004)

From the INTERNATIONAL SEARCHING AUTHORITY	OPERATION TREATY REC'D 1 0 MAY
To: JANG, Seongku	PCT WIPO
19th Fl., KEC Building, #275-7, Yangjae-dong, Seocho-ku Seoul 137-130 Republic of Korea	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)
	Date of mailing (day/month/year) 29 APRIL 2005 (29.04.2005)
Applicant's or agent's file reference PCA50103-HMY	FOR FURTHER ACTION See paragraph 2 below
International application No. International filing	g date (day/month/year) Priority date(day/month/year)

International Patent Classification (IPC) or both national classification and IPC

1.	This	opinion contair	is indications relating to the following items:
	\boxtimes	Box No. I	Basis of the opinion
		Box No. II	Priority
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
		Box No. IV	Lack of unity of invention
l		Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
		Box No. VI	Certain documents cited
		Box No. VII	Certain defects in the international application
		Box No. VIII	Certain observations on the international application

10 JANUARY 2005 (10.01.2005)

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written

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Name and mailing address of the ISA/KR

PCT/KR2005/000066

HANMI PHARM. CO., LTD. et al

IPC7 A61K 9/16

Applicant



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

opinions of this International Searching Authority will not be so considered.

Facsimile No. 82-42-472-7140

2. FURTHER ACTION

Authorized officer

Yoon, Kyung Ae

Telephone No. 82-42-481-5605



International application No. PCT/KR2005/000066

Bo	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material a sequence listing table(s) related to the sequence listing
	b. format of material in wirtten format in computer readable form
	c: time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

International application No. PCT/KR2005/000066

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement				
Novelty (N)	Claims	1-8	 	YES
	Claims			NO
Inventive step (IS)	Claims	1-8		YES
•	Claims			NO
Industrial applicability (IA)	Claims	1-8		YES
	Claims			NO

2. Citations and explanations:

The present invention relates to cefuroxime axetil granules comprising non-crystalline cefuroxime axetil solid dispersant, sucrose fatty acid ester, methacrylic acidethylacrylate copolymers and a disintegrant, and a process for preparing thereof.

The following documents have been considered for the purpose of this report:

D1 = US 6107290 (22.08.2000)

D2 = US 4865851 (12.09.1989)

D3 = US 4994576 (19.09.1991)

D4 = US 5013833 (07.05.1991)

1) Novelty

D1 discloses a non-crystalline cefuroxime axetil solid dispersant comprising cefuroxime axetil, a surfactant and a water-insoluble inorganic carrier.

D2 discloses a composition comprising cefuroxime axetil in particulate form, the particles being provided with integral coatings of a lipid or a mixture of lipids which serve to mask the bitter taste of cefuroxime axetil upon oral administration.

D3 discloses a process for the preparation of a highly pure cefuroxime axetil in amorphous form which comprises preparing a highly pure solution of cefuroxime axetil and roller drying said solution.

D4 discloses a process for the preparation of a highly pure cefuroxime axetil in substantially amorphous form which involves the recovery of the product from a solution thereof by spray drying techniques.

(Continued on Supplemental Sheet)

International application No.

PCT/KR2005/000066

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box V.

Although the documents D1-D4 describes a composition comprising cefuroxime axetil to mask the bitter taste or improve the bioavailability of cefuroxime axetil, none of the cited documents discloses cefuroxime axetil granules comprising non-crystalline cefuroxime axetil solid dispersant, sucrose fatty acid ester, methacrylic acidethylacrylate copolymers and a disintegrant. The subject matter of claims 1-8 can therefore be regarded as novel under PCT Article 33(2).

2) Inventive step

There is no indication in cited documents which would have led the skilled person to use a sucrose fatty acid ester and methacrylic acid-ethylacrylate copolymers in the preparation of cefuroxime axetil granules. Also, it could not be foreseen from the cited documents that the advantage such as masking the bitterness of cefuroxime axeteil and high bioavailability can be obtained as disclosed on examples of the present invention. Therefore, the subject-matter of claims 1-8 is considered to involve an inventive step under PCT Article 33(3).

3) Industrial applicability
The subject-matter of claims 1-8 appears to be industrially applicable under PCT Article 33(4).

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PATENT COOPERATION TREATY From the REC'D 1 0 MAY 2005 INTERNATIONAL SEARCHING AUTHORITY To: JANG, Seongku 19th Fl., KEC Building, #275-7, Yangjae-dong, Seocho-ku WRITTEN OPINION OF THE Seoul 137-130 Republic of Korea INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) 29 APRIL 2005 (29.04.2005) Applicant's or agent's file reference FOR FURTHER ACTION PCA50103-HMY See paragraph 2 below International application No. International filing date (day/month/year) Priority date(day/month/year) PCT/KR2005/000066 10 JANUARY 2005 (10.01.2005) 09 JANUARY 2004 (09.01.2004) International Patent Classification (IPC) or both national classification and IPC IPC7 A61K 9/16 Applicant HANMI PHARM. CO., LTD. et al This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

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Yoon, Kyung Ae

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International application No.

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International application No. PCT/KR2005/000066

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement Novelty (N)	Claims	1-8	YES
• • •	Claims		NO NO
Inventive step (IS)	Claims	1-8	YES
	Claims		 NO
Industrial applicability (IA)	Claims	1-8	 YES
	Claims		 NO

2. Citations and explanations:

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